RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/578,672A_
Source: _ITWP_
Date Processed by STIC: _4/20/07_

ENTERED

IFWP

```
RAW SEQUENCE LISTING              DATE: 04/20/2007
PATENT APPLICATION:   US/10/578,672A    TIME: 20:10:37

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\04202007\J578672A.raw
```

$C_{p5}.(6)$

```
   5 <110> APPLICANT: EXONHIT THERAPEUTICS SA
   9 <120> TITLE OF INVENTION: Identification of diagnostic markers for Communicable
subacute spongiform
  10          encephalopathies
  14 <130> FILE REFERENCE: 3665-178
  16 <140> CURRENT APPLICATION NUMBER: 10/578,672A
C--> 18 <141> CURRENT FILING DATE: 2006-05-09
  21 <150> PRIOR APPLICATION NUMBER: PCT/FR2004/002892
  23 <151> PRIOR FILING DATE: 2004-11-10
  27 <150> PRIOR APPLICATION NUMBER: FR 03 13275
  29 <151> PRIOR FILING DATE: 2003-11-13
  33 <160> NUMBER OF SEQ ID NOS: 26
  37 <170> SOFTWARE: PatentIn version 3.1
  41 <210> SEQ ID NO: 1
  43 <211> LENGTH: 191
  45 <212> TYPE: DNA
  47 <213> ORGANISM: artificial sequence
  51 <220> FEATURE:
  53 <223> OTHER INFORMATION: ESB marker
  55 <400> SEQUENCE: 1
  56 ggtgtggagg tgttcaaagg cattgacaat cggactcaga aagtagtcgc cataaaaatc     60
  58 attgacctgg aggaggcaga agatgagatc gaggacattc agcaggaaat cacagtgctg    120
  60 agtcagtgtg acagtcccta cgtaaccaaa tattacggat cctacctgaa ggacactaaa    180
  62 ttgtggataa t                                                        191
  65 <210> SEQ ID NO: 2
  67 <211> LENGTH: 244
  69 <212> TYPE: DNA
  71 <213> ORGANISM: artificial sequence
  75 <220> FEATURE:
  77 <223> OTHER INFORMATION: ESB marker
  79 <400> SEQUENCE: 2
  80 tatctgcaga atttcccctt gagaagcgtt atggggtgca ggtaagttat tacacaagag     60
  82 aaagaagttt cttactaac agcaagatta atggcacaat tcaaccaaaa ctcatataca    120
  84 ttttactgct taatttacat attattttgg tggaaaaaat agtattcttt attctttcag    180
  86 tttctttatg caaaaataca cttctacagg gacatcactt agatgttatg caaacctccc    240
  88 cccc                                                                244
  91 <210> SEQ ID NO: 3
  93 <211> LENGTH: 325
  95 <212> TYPE: DNA
  97 <213> ORGANISM: artificial sequence
 101 <220> FEATURE:
 103 <223> OTHER INFORMATION: ESB marker
 105 <400> SEQUENCE: 3
 106 gagacatttg gccaaaagag gaatttccag gacaccaaca acatccatta ttccattatt     60
```

```
108 catttgtttc ctgaagagca aacacttcct tgaaattctt ctcaaattct gcctccagtc    120
110 taagccccat ttggccaaaa tcattgaact tgaaagatgc cctgtggttc tgaaagatga    180
112 gacgcatgtc ccacacaaac ccttccacat tggagtagcc ctgctcattc agcctcttct    240
114 tgatcttgtc cagccacatg ggctccttga ggttttaga agcctctttc atataataat     300
116 aatagggaat cctcactata acgct                                         325
119 <210> SEQ ID NO: 4
121 <211> LENGTH: 688
123 <212> TYPE: DNA
125 <213> ORGANISM: artificial sequence
129 <220> FEATURE:
131 <223> OTHER INFORMATION: ESB marker
133 <400> SEQUENCE: 4
134 aagcgttatg caggtaggcc gacaaggcga agtgggatgc cggagagcgg ccgagttatt    60
136 gctccgagga gaccacgttc accggttact atggcgaccg ccccatcccg gatcactatc    120
138 agccgttcac cgccgatgag gcgacgtggt tccagctctg ggagacggtg agcgagggca    180
140 ctcctacgtc gccgcccttc gcgacgattg aggaactggc agcctacctc gccgagtggg    240
142 gcgacttctg tgatcacagg cgcgccgtcg agtccatgga cgcgcgcgag attgagcgcc    300
144 tcctgacgct gaatgaccgg cactagttca aggtgcggct gggggcagca gcgcgcctaa    360
146 gctttctgca agactggctg ggcgcccagc atgatggtcc gcggcggcga gatcctgacc    420
148 aaccctgggg acatggtgtc gtcgtgaccc tcgcctagct ctctcacaca cctaggagga    480
150 agagatgacc accccaaca ttcgcggcca cgagaccgaa gccaaggccc gcaaggcggc     540
152 gatgaagtgg ttcaccttca cggacggcac caagcctgtc gagggcgtcc acttccacat    600
154 caagcagaac cacttcgggc tctggacctt ccgggagggc ccggctccga agtccgccgg    660
156 accccgcatc actcataacg cttctcaa                                      688
159 <210> SEQ ID NO: 5
161 <211> LENGTH: 373
163 <212> TYPE: DNA
165 <213> ORGANISM: artificial sequence
169 <220> FEATURE:
171 <223> OTHER INFORMATION: ESB marker
173 <400> SEQUENCE: 5
174 agaagcgtta ttgctgatac ccgctacatg ttctccaggc ctttcagaaa acatggagtt    60
176 gttcctttgg ccacatacat gcgaatctac aggaagggtg atattgtaga tatcaaggga    120
178 atgggtactg ttcaaaaagg aatgccccac aaatgttacc atggcaaaac tggaagagtc    180
180 tataatgtca cccagcatgc tgttggcatc attgtaaaca aacaagttaa gggcaagatt    240
182 cttgccaaga gaattaatgt gcgtatcgag catattaagc actctaagag ccgagatagc    300
184 ttcctgaaac gtgtgaagga aaatgatcag aaaaagaggg aagccaaaga gaaagggact    360
186 tggggttaac acc                                                      373
189 <210> SEQ ID NO: 6
191 <211> LENGTH: 235
193 <212> TYPE: DNA
195 <213> ORGANISM: artificial sequence
199 <220> FEATURE:
201 <223> OTHER INFORMATION: ESB marker
203 <400> SEQUENCE: 6
204 gggcggaggt caccctgggg atcctccagg gccaggccct ggcacaactc gtctccatca    60
206 cacagatggg ccgtcgcctg gtcgtggctc tcaggagtca gaccggaaaa agccagccct    120
208 ggggcaacca ggagcaccga ggtgatgagc aggacagccc aggaggtcat gttgaggcag    180
210 ctgaaaggtc tgtgcaagtc aatcatgaag aaatttctcc gtaccatcac ctccc          235
```

```
213 <210> SEQ ID NO: 7
215 <211> LENGTH: 285
217 <212> TYPE: DNA
219 <213> ORGANISM: artificial sequence
223 <220> FEATURE:
225 <223> OTHER INFORMATION: ESB marker
227 <400> SEQUENCE: 7
228 cttgtgtagg cagaggttcc agggtcagtg gaggaagcag catcacagcc agatccatgg      60
230 ttgggggatg gccacgggaa atgacttggt gactgactct gatctcagag tgggacaggc     120
232 tgacaggcat ctgggaattc cgggcaaggt caggcacgta ttatagaaga gcaaacacca     180
234 atcccaaaat atcctcagga atcagcgcat gagccccttc tggctcctgt gatggatgat     240
236 gaggcccagc ccaaggaaga tcagccccag cacaaagcct ccaac                     285
239 <210> SEQ ID NO: 8
241 <211> LENGTH: 235
243 <212> TYPE: DNA
245 <213> ORGANISM: artificial sequence
249 <220> FEATURE:
251 <223> OTHER INFORMATION: ESB marker
253 <220> FEATURE:
255 <221> NAME/KEY: misc_feature
257 <222> LOCATION: (44)..(85)
259 <223> OTHER INFORMATION: N = A, T, G or C
263 <400> SEQUENCE: 8
W--> 264 tctgcagaat tcgcctctga gaagcgttat ccgttggacc caannnnnnn nnnnnnnnnn   60
266 nnnnnnnnnn nnnnnnnnnn nnnnncaaga gaaagatca gagggtgctg gtgtgacgtt       120
268 taagtaggaa aaggcctgga aggtgagtcc atcaaccgcg gagacaaaag tgggcccggc      180
270 tccttccaca ggtgccgact gatgctgcca gttcacggtc agtgtgggtc aacac          235
273 <210> SEQ ID NO: 9
275 <211> LENGTH: 400
277 <212> TYPE: DNA
279 <213> ORGANISM: artificial sequence
283 <220> FEATURE:
285 <223> OTHER INFORMATION: ESB marker
287 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
291 <222> LOCATION: (18)..(57)
293 <223> OTHER INFORMATION: N = A, T, C or G
297 <400> SEQUENCE: 9
W--> 298 aagcgttatt tagataannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntac   60
300 acccagagta ttccatagtt tgatggtttt gtctcgggag ccagagacaa tttgccggtt       120
302 gtcagaagag aaggccacac tcagcacatc tttggtatgg cctacaaatc ggcgagtggt      180
304 ggtgcccgtt gtgagatccc aaaggcgaag ggttccatcc caggagcctg agagggcaaa      240
306 ttggccatct gaggaaatga ccacatcact aacaaagtgg gagtgacccc gaagagcacg      300
308 ctgtgggata ccatagttgg tttcatctct ggtcagcttc cacataatga tggtcttatc      360
310 tcgagaggcg gacgatatca tgtccgggaa ctggggagtg                            400
313 <210> SEQ ID NO: 10
315 <211> LENGTH: 397
317 <212> TYPE: DNA
319 <213> ORGANISM: artificial sequence
```

RAW SEQUENCE LISTING DATE: 04/20/2007
PATENT APPLICATION: US/10/578,672A TIME: 20:10:37

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\04202007\J578672A.raw

```
323 <220> FEATURE:
325 <223> OTHER INFORMATION: ESB marker
327 <400> SEQUENCE: 10
328 gggccagggg atgatatgaa tgtcacagga ggagacacct tctgtctttg tttcaaagaa        60
330 agttgatgtg ccatttgtta atatacaaga gaaatattga aaatatattg aaaagagcaa       120
332 ttttaaatta tttttggctt atgttgcaat atttattttc ttgtattagg aaagattcct       180
334 ttgtagaaaa aaaatgtatt tttcattaac gcaaaaacct atttctcctt tttgtacatt       240
336 gtccatgttc gctaccctta acgagcaata gaatgtatgg ctgcctcggg gtggccggtg       300
338 cccgcgtgcc ctgcatgatt ctgtggtccc accaccatgt agctcccagt cccatcctgt       360
340 cctgctcact catgggggtt tccagagcct agcccct                                397
343 <210> SEQ ID NO: 11
345 <211> LENGTH: 397
347 <212> TYPE: DNA
349 <213> ORGANISM: artificial sequence
353 <220> FEATURE:
355 <223> OTHER INFORMATION: ESB marker
357 <400> SEQUENCE: 11
358 tggattgcag gtgactgaga aaaccatcga ggacagtttt taaggggtca ctgagccagg        60
360 agcaaatgag atcctgagaa agtacttcat tgtggaagag ttagcactaa gcaggaaacc       120
362 tttccatgct gtgaagaagc tgggacagaa ggttcttcct tgagtgtgac catcttcact       180
364 tcagctcagg agccctgttg gctgaagtgt agggcgtcct ttctgattcc tgaagtatat       240
366 ttattagccc cacggcaagg aagaacagac tcagaacgaa gcccccgact ccactcatca       300
368 tcttgctctg agcagagtca gaccgtgccc tccattctac tgtgataggg cttgtctggc       360
370 tggggtgctc cacttggcaa gtgtagacct ggcacca                                397
373 <210> SEQ ID NO: 12
375 <211> LENGTH: 454
377 <212> TYPE: DNA
379 <213> ORGANISM: artificial sequence
383 <220> FEATURE:
385 <223> OTHER INFORMATION: ESB marker
387 <220> FEATURE:
389 <221> NAME/KEY: misc_feature
391 <222> LOCATION: (435)..(446)
393 <223> OTHER INFORMATION: N= A, T, C or G
397 <400> SEQUENCE: 12
398 gctgtccaaa aaggcctccg ttatggaata attcttttta ttatctccga agtactattc        60
400 tttaccggat ttttctgagc tttctaccac tcaagcctcg cccccacccc tgggggaggc       120
402 ggctgctgac ccccaacagg cattcaccca ctaaaccccc tagaagtccc actgctcaac       180
404 acctctgtcc tattggcttc cggagtttct attacctgag cccatcatag tttaatagaa       240
406 ggggaccgaa agcatatatt acaagcccta tttatcacca tcacattagg agtctacttc       300
408 acactactac aagcctcaga atactatgaa gcacctttta ctatctccga cggagtttac       360
410 ggctcaactt tttttgtagc cacaggcttc cacggcctcc acgtcatcat tgggtccaac       420
```
W--> `412 aaataacgct tctcnnnnnn nnnnnntgca gata                                    454`
```
415 <210> SEQ ID NO: 13
417 <211> LENGTH: 219
419 <212> TYPE: DNA
421 <213> ORGANISM: artificial sequence
425 <220> FEATURE:
427 <223> OTHER INFORMATION: ESB marker
```

```
     429 <220> FEATURE:
     431 <221> NAME/KEY: misc_feature
     433 <222> LOCATION: (47)..(140)
     435 <223> OTHER INFORMATION: N = A, T, C or G
     439 <400> SEQUENCE: 13
W--> 440 ggggaggtat ctgtcaccca cgcagaaatg cttctgacag gcggcannnn nnnnnnnnnn      60
     442 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     120
     444 nnnnnnnnnn nnnnnnnnnn cttggccgaa aagcctgagg tagtctcggc ggcagagctt     180
     446 ccggcccagc ttgtagtaga ggcgccggcc cacctaccc                           219
     449 <210> SEQ ID NO: 14
     451 <211> LENGTH: 386
     453 <212> TYPE: DNA
     455 <213> ORGANISM: artificial sequence
     459 <220> FEATURE:
     461 <223> OTHER INFORMATION: ESB marker
     463 <400> SEQUENCE: 14
     464 gaagcgttat tggaggaggc taacctagga gcagaggatc agttcacgaa gagcgagcgg      60
     466 gtgaactcga cgtagtcaaa agcagtgggg agttcgcggc ccttgctgtc cacgtagggc     120
     468 ttcatgtggg agacgcagta gtcggcttgt tcccgagtca agttctggta cagctcctcc     180
     470 ttggtcacat aaggcttccc ttcagagctc acggcccgga aggcgctctc aatctcctcg     240
     472 ctggacttga cgttctccgt ctcacggctg atcataaagg acatgtactc ttgcatggag     300
     474 acgtggacgt ccctgttagg atccacagtg tccaagatgg actcgaactc aaggtcgggc     360
     476 tccccttcct ccaacatggg caggtc                                         386
     479 <210> SEQ ID NO: 15
     481 <211> LENGTH: 472
     483 <212> TYPE: DNA
     485 <213> ORGANISM: artificial sequence
     489 <220> FEATURE:
     491 <223> OTHER INFORMATION: ESB marker
     493 <400> SEQUENCE: 15
     494 tctgcagaat tcgcctttga gaagcgttat gggggcgagg tggtaaagga agcttacaaa      60
     496 acaactattc tttaaaaaaa aacaaaaaaa caaaaaaaca aaaaacagca aaagccaacc     120
     498 ggcccaattt tgtctccagt tttcaacgtg tgctttcgag catttcagct gtttccagtt     180
     500 actttagttt ccagatatta gtcttccatt tagtttttaag actaaatctc acttttggat     240
     502 aaacacaagg aaatatttta cttgctgaaa aatcacttta ctggataaag ttacctctta     300
     504 tgcctttcag ttttctaatc caactttctg acaaccagtg gtaattagga agttctaagt     360
     506 tgcagttgtc cctatgactt tgggcttccc tggtggctca gctggtcaaa aatctgcctg     420
     508 caatgcggga gacctccacc ccataacgct tctcaaaggc gaattctgca ga              472
     511 <210> SEQ ID NO: 16
     513 <211> LENGTH: 424
     515 <212> TYPE: DNA
     517 <213> ORGANISM: artificial sequence
     521 <220> FEATURE:
     523 <223> OTHER INFORMATION: ESB marker
     525 <400> SEQUENCE: 16
     526 ttgagaagcg ttattgtggg gaggtcatag ttgatgacta aggaaacttg ctgtacatca      60
     528 atacctctgg ccagtaggtc agtggtaatc aatactctgc tggagccaga gcggaactcc     120
     530 ctcatgataa cgtctcgttc tttttggtcc atgtctccgt gcatggcaga gacggtgaag     180
     532 tctcgggcat gcatcttctc ggtgagccaa tccaccttcc ttcgggtgtt gatgaagatg     240
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/20/2007
PATENT APPLICATION: US/10/578,672A   TIME: 20:10:38

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\04202007\J578672A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
Seq#:8; N Pos. 64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
Seq#:8; N Pos. 84,85
Seq#:9; N Pos. 18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37
Seq#:9; N Pos. 38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57
Seq#:12; N Pos. 435,436,437,438,439,440,441,442,443,444,445,446
Seq#:13; N Pos. 47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66
Seq#:13; N Pos. 67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86
Seq#:13; N Pos. 87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104
Seq#:13; N Pos. 105,106,107,108,109,110,111,112,113,114,115,116,117,118,119
Seq#:13; N Pos. 120,121,122,123,124,125,126,127,128,129,130,131,132,133,134
Seq#:13; N Pos. 135,136,137,138,139,140
Seq#:18; N Pos. 362,363,364,365,366,367,368

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY   DATE: 04/20/2007
PATENT APPLICATION: **US/10/578,672A**   TIME: 20:10:38

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\04202007\J578672A.raw**

```
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:420
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:360
```